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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TECH CENTER 1600/2900

Art Unit : 1645  
Examiner :  
Filed : May 10, 2001  
Serial No. : 09/852,378  
Inventors : Michel Lazdunski  
: Pierre Escoubas  
: Jan DeWeille  
: Sylvie Diochot  
Title : POLYPEPTIDE INHIBITING  
: A PROTON-GATED  $\text{Na}^+$   
: CHANNEL, A NUCLEIC ACID  
: CODING FOR SUCH  
: POLYPEPTIDE AND A  
: METHOD OF MANUFACTURING  
: AN ASIC1a CHANNEL BLOCKER



22469

PATENT TRADEMARK OFFICE

Docket No.: 1105-R-00

Dated: September 24, 2002

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, DC 20231

Sir:

We submit herewith the usual Form PTO-1449 together with copies of publications listed therein.

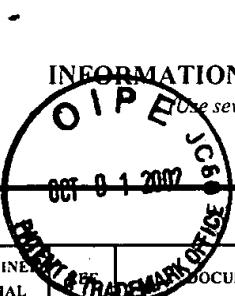
We are submitting this in the spirit of voluntary disclosure and look forward with interest to the Examiner's action at an early date on the merits of the case.

It is accordingly requested that the Information Disclosure Statement be officially entered in the file of this case and that appropriate notification be made that it was considered in the prosecution of the case.

Respectfully submitted,

T. Daniel Christenbury  
Reg. No. 31,750  
Attorney for Applicants

TDC:vjh  
(215) 563-1810

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i> 		Docket Number (Optional) 1105-R- <span style="background-color: black; color: black;">XXXXXXXXXX</span>		Application Number 09/852,378			
		Applicant(s) Michel Lazdunski et al.					
		Filing Date May 10, 2001		Group Art Unit 1645			
		<b>U.S. PATENT DOCUMENTS</b>					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS		
					FILING DATE IF APPROPRIATE		
<b>RECEIVED</b> OCT 05 2002 <b>TECH CENTER 1600/2000</b>							
<b>FOREIGN PATENT DOCUMENTS</b>							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
		Waldmann, R., Champigny, G., Bassilana, F., Heurteaux, C. and Lazdunski, M. "A Proton-Gated Cation Channel Involved in Acid-Sensing", Nature, 386, 173-177, 1997.					
		Chen, C.C., England, S., Akopian, A.N and Wood, J.N., "a Sensory Neuron-Specific, Proton-Gated Ion Channel", Proc. Natl. Acad. Sci. USA, 95, 10240-10245, 1998.					
EXAMINER			DATE CONSIDERED				

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

OCT 01 2002

Docket Number (Optional)

1105-R

Application Number

09/852,378

Applicant(s)

Michel Luzdunski et al.

Filing Date

May 10, 2001

Group Art Unit

1645

\*EXAMINER  
INITIALS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓ Price, M.P., Snyder, P.M. and Welsh, M.J., "Cloning and Expression of a Novel Human Brain Na<sup>+</sup> Channel", J. Biol. Chem., 271, 7879-7882, 1996.

✓ Lingueglia, E., de Weille, J.R., Bassilana, F., Heurteaux, C., Sakai, H., Waldmann, R. and Lazdunski, M., "a Modulatory Subunit of Acid Sensing Ion Channels in Brain and Dorsal Root Ganglion Cells", J. Biol. Chem., 272, 29778-29783, 1997.

✓ Waldmann, R., Bassilana, F., de Weille, J., Champigny, G., Heurteaux, C. and Lazdunski, M., "Molecular Cloning of a Non-Inactivating Proton-Gated Na<sup>+</sup> Channel Specific for Sensory Neurons", J. Biol. Chem., 272, 20975-209758, 1997.

✓ Hucho, F. (1995), "Toxins as tools in neurochemistry", Ang. Chem. Int. Ed. Eng., 34, 39-50.

✓ Narasimhan, L., Singh, Jr., Humblet, C. Guruprasad, K. and Blundell, T., "Snail and Spider Toxins Share a Similar Tertiary Structure and 'Cystine Motif'", Nat. Struct. Biol., 1, 850-852, 1994.

✓ Pallaghy, P.K., Nielsen, K.J., Craik, D.J. and Norton, R.S., "A Common Structural Motif Incorporating a Cystine Knot and a Triple-stranded Beta-sheet in Toxic and Inhibitory Polypeptides", Protein Sci., 3, 1833-1839, 1994.

✓ Norton, R.S. and Pallaghy, P.K., "The Cystine Knot Structure of Ion Channel Toxins and Related Polypeptides", Toxicon, 36, 1573-1583, 1988.

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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.